









Chapter 296-811 WAC March 2006 Edition

Washington Industrial Safety & Health Act



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Standards Update to Chapter 296-811 WAC, Fire Brigades

Issue Date 3/2006 Effective Date 3/1/2006

The Department of Labor and Industries has rewritten and reorganized for clarity and ease of use the safety standards for Fire Brigades. The department has repealed the rule in chapter 296-24 and adopted Fire Brigades as chapter 296-811 WAC.

Please discard WAC 296-24-58505 through 296-24-58517.

To receive future updates of this standard and all other Department of Labor and Industries safety and health standards electronically, please sign up on the WISHA Listserv (http://www.lni.wa.gov/Safety/Rules/default.htm). By subscribing to the Listserv, you will also receive rule updates, hearing notices, and informational packets for all safety and health rules.

Also available on the WISHA web site:

- WISHA Core Rules
- Other General WISHA Rules
- Industry and Task-specific Rules
- Proposed rules and hearings
- Newly adopted rules and new rule information
- WISHA Regional Directives (WRDs)
- WISHA Interim Operations and Interpretive Memoranda (WIIM)
- Memoranda of Understanding (MOU)

To receive hardcopy updates of this rule, please return the card located at the back of the book.

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Other Rules that may apply to your workplace

- The WISHA Safety and Health Core Rules, Chapter 296-800 WAC, contain the basic requirements that apply to most employers in Washington. They also contain:
 - An Introduction that lists important information you should know, including a section on building, fire and electrical codes.
 - A Resource section that includes a complete list of all WISHA rules and a directory of the Labor and Industries (L&I) offices.
- Other WISHA rules may apply to you, depending on the activities and operations
 of your workplace. Contact your local L&I office if you're uncertain about which
 WISHA requirements apply to you.
- To go online to access all the Safety and Health Rules: http://www.lni.wa.gov/wisha
- If you would like to receive e-mail notification of rule updates, please register for the Standards Listserv on the WISHA web site at http://www.lni.wa.gov/home/listservs.htm
- For a CD or paper copy contact us by:

Mail: Department of Labor and Industries P.O. Box 44620 Olympia, WA 98504-4620

Telephone: 1-800-4BE-SAFE (1-800-423-7233)

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Scope

This chapter applies if you choose to establish a fire brigade.



Definition:

A *fire brigade* is an organized group of employees whose primary employment is other than fire fighting but who are knowledgeable, trained, and skilled in specialized fire fighting operations based on site-specific hazards present at a single commercial facility or facilities under the same management.



Note:

Nothing in this chapter requires you to establish an employee fire brigade.



Notes

Establishing a Fire Brigade WAC 296-811-200

Section Contents

YOUR RESPONSIBILITY:

To decide on brigade functions in the workplace and make sure brigade members are capable of doing them

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Establishing a Fire Brigade

Rule

WAC 296-811-20005

Organizing statement

You must

- Develop a written fire brigade policy that's available for inspection by employees or their designated representatives, that covers all of the following:
 - The role and responsibilities of the fire brigade in the workplace.
 - The basic organizational structure of the fire brigade.
 - The number of brigade members.
 - Type, amount, and frequency of training for brigade members according to the section Fire fighting training, WAC 296-811-30010, in this chapter.



Note:

You may also want to include:

- Descriptions of brigade member duties.
- Line authority of each brigade officer.
- Number of brigade officers.
- Number of training instructors.

Establishing a Fire Brigade

Rule

WAC 296-811-20010

Physical capability of brigade members

You must

- Make sure brigade members who are assigned to fight interior structural fires are physically capable of doing this activity.
 - Don't permit employees with known physical limitations that can be reasonably identified, such as heart disease or seizure disorder, to participate in structural fire fighting activities unless the employee has been released by a physician to do so.



Note:

Not all brigade members need to be physically capable of fighting interior structural fires. Brigade members who aren't physically capable of fighting interior structural fires may be assigned to other brigade duties that match their physical capabilities, such as pump operation or fire prevention inspection.



Notes



Section Contents

YOUR RESPONSIBILITY:

To inform brigade members of special hazards in the workplace and train them for their brigade functions

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WAC 296-811-30005

Special hazards

You must

- Develop, include in training, and make available to brigade members, written procedures that describe the following:
 - The special hazards they may encounter in their workplace.
 - The actions they need to take in situations that involve these hazards.
- Inform brigade members of any changes to those hazards, or the actions to take, when changes happen.
 - Examples of special hazards include storing and using flammable liquids and gases, toxic chemicals, and radioactive substances.







WAC 296-811-30010

Fire fighting training

You must

- Make sure training that a brigade member receives elsewhere that meets one or more requirements in Table 1, Training for brigade members, has been:
 - Received within the past year
 - Documented as having been received, such as with a completion certificate.
- Provide training frequently enough to keep brigade members able to do their functions satisfactorily and safely.



Note:

You may choose to train more often, monthly or even weekly, for some equipment or techniques. Consult fire training resources, such as the International Fire Service Training Association, the National Fire Protection Association (NFPA), or the International Society of Fire Service Instructors, for recommendations about fire training schools or programs.

- Continued-



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WAC 296-811-30010

Fire fighting training (Continued)

• Make sure brigade members are trained according to Table 1, Training for Brigade Members.

Table 1 **Training for Brigade Members**

For these brigade members	Provide training that's	At these times
All brigade members, including leaders, trainers, and incident commanders	 Appropriate to their assigned duties and functions Appropriate to special hazards in the workplace. Similar to that of reputable fire training schools A combination of hands-on and classroom experiences. Suited to the industry you are part of, such as oil refining or chemical processing 	 Initially before they do any fire brigade emergency activities and Every year after initial training
Brigade members assigned to do interior structural fire fighting	All of the above plus the following: Specific training in interior structural fire fighting	All of the above plus the following: - Every quarter
Brigade members assigned as leaders, training instructors, or both	All of the above plus the following: - Additional training that's more comprehensive than that of other brigade members and appropriate to their assigned duties and functions	As needed to maintain their expertise at a higher level than that of other brigade members

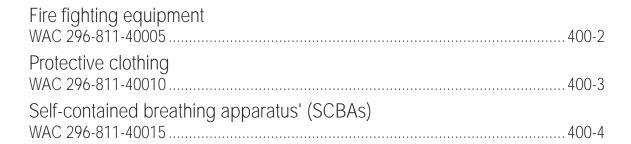




Section Contents

YOUR RESPONSIBILITY:

To provide brigade members with equipment and protective clothing appropriate for their brigade functions





Equipment WAC 296-811-400

Rule

WAC 296-811-40005

Fire fighting equipment

You must

- Provide appropriate fire fighting equipment for the fire brigade.
- Inspect and maintain brigade fire fighting equipment according to Table 2, Fire Brigade Equipment Inspection and Maintenance.

Table 2 **Fire Brigade Equipment Inspection and Maintenance**

For this equipment	Do the following
All brigade fire fighting equipment	Inspect at least every year.Maintain in safe operating condition.Replace if damaged or in unsafe condition.
Brigade respirators and portable fire extinguishers	Inspect at least every month and after each use



WAC 296-811-40010

Protective clothing

You must

- Provide appropriate protective clothing for fire brigade members who do interior structural fire fighting. Make sure protective clothing is:
 - Provided at no cost.
 - Meets the requirements for foot, body, hand, eye, face, and head protection found in another chapter, Safety Standards for Fire Fighters, Chapter 296-305 WAC.



Exemption:

Protective clothing requirements don't apply to the following fire brigade members:

- Those who don't perform interior structural fire fighting.
- Those who use only standpipe systems or portable fire extinguishers to control or put out fires that are in the incipient stage only.



Equipment

Rule

WAC 296-811-40015

Self-contained breathing apparatus' (SCBAs)

You must

- Provide SCBAs, other than escape self-contained breathing apparatus' (ESCBAs), and make sure they are used by fire brigade members who do interior structural fire fighting.
- Make sure SCBAs do the following:
 - Meet the requirements found in another chapter, Respirators, chapter 296-842 WAC.
 - Are positive-pressure or pressure-demand type.
 - Use only compressed-air cylinders that:
 - Meet department of transportation (DOT) and the National Institute for Occupational Safety and Health (NIOSH) requirements.
 - Have a service life of at least 30 minutes, as required by 42 CFR, Part 84.
 - Have an automatic alarm that can be heard when 75 to 80 percent of its service life has been used up.



Note:

An SCBA can have a quick-disconnect valve or "buddy breathing" accessory only if the valve or accessory doesn't do any of the following:

- Damage the SCBA
- Restrict the SCBA's air flow
- Interfere with the SCBA's normal operation
- The "buddy breathing" accessory or quick-disconnect valve need not be certified by NIOSH

Requirements During Fire Fighting WAC 296-811-500

Section Contents

YOUR RESPONSIBILITY:

To make sure brigade members use safe practices during interior structural fire fighting

Brigade members in interior structural fires

Requirements During Fire Fighting

Rule

WAC 296-811-50005

Brigade members in interior structural fires

IMPORTANT:

Nothing in this section is meant to prevent fire brigade members assigned to respond to fires from rescue activities in an immediately dangerous to life and health (IDLH) atmosphere before the whole team assigned to respond to fires has arrived.

You must

- Make sure at least 2 qualified fire brigade members go together into an IDLH atmosphere and remain in visual or voice contact with each other at all times.
- Maintain standby assistance, with two people, as required by another section, Standby requirements for immediately dangerous to life or health (IDLH) conditions, WAC 296-842-19005.



Note:

One of the 2 brigade members providing standby assistance can be assigned another role, such as safety officer, as long as the safety or health of any fire fighter working the incident won't be jeopardized if the brigade member becomes unavailable through giving assistance or rescue.



Reference:

More information on interior structural fires is located in another section, WAC 296-305-05001, Emergency Fireground Operations-Structural.



Definitions

Buddy-breathing device

An equipment accessory for self-contained breathing apparatus (SCBA) that permits a second person (a "buddy") to share the air supply used by the SCBA wearer.

Extinguisher classification

The letter classification given an extinguisher to designate the class or classes of fires on which that extinguisher will be effective. For example, use a Class A extinguisher on a Class A fire. See also fire classifications.

Portable fire extinguishers are classified for use on certain classes of fires and are rated within that class for relative extinguishing effectiveness at a temperature of plus 70° F by nationally recognized testing laboratories. This is based upon fire classifications and fire extinguishment potentials as determined by fire tests.

Note:

The classification and rating system described in this section is used by Underwriters' Laboratories, Inc., and Underwriters' Laboratories of Canada, and is based on extinguishing preplanned fires of determined size and description as follows:

Extinguisher Class	Fire Test for Classification and Rating
Class A	Wood and excelsior fires excluding deep-seated conditions.
Class B	Two-inch depth gasoline fires in square pans.
Class C	No fire test. Agent must be a nonconductor of electricity.
Class D	Special tests on specific combustible metal fires.

Extinguisher rating (see also "extinguisher classification")

The numerical rating, such as 2A, given to an extinguisher that indicates the extinguishing potential of the unit based on standardized tests developed by Underwriters' Laboratories, Inc.



Fire Brigades WAC 296-811-600

Definitions

Fire brigade

An organized group of employees whose primary employment is other than fire fighting but who are knowledgeable, trained, and skilled in specialized fire fighting operations based on site-specific hazards present at a single commercial facility or facilities under the same management.

Fire classifications

Fires are classified based on the types of burning materials:

Fire Class	Types of Burning Materials
Class A	Fires involving ordinary combustible materials such as paper, wood, cloth, and some rubber and plastic materials.
Class B	Fires involving flammable or combustible liquids, flammable gases, greases, and similar materials, and some rubber and plastic materials.
Class C	Fires involving energized (live) electrical equipment where it's important that the extinguishing agent not conduct electricity. (When electrical equipment is de-energized, it's safe to use an extinguisher for Class A or B fires on it, since electricity isn't an issue then.)
Class D	Fire involving combustible metals such as magnesium, titanium, zirconium, sodium, lithium, and potassium.

Incipient fire stage

A fire in the beginning stage that can be controlled or put out by portable fire extinguishers, or small hose systems, without the need for protective clothing or breathing apparatus.





Definitions

Inspection

A visual check of fire protection systems and equipment to ensure they are in place, charged, and ready for use if there is a fire.

Interior structural fire fighting

The physical activity of suppressing fire, rescuing people, or both, inside buildings or enclosed structures involved in a fire that's past the incipient stage.

Maintenance

Servicing fire protection equipment and systems to ensure they will perform as expected if there is a fire. Maintenance differs from inspection in that maintenance requires checking internal fittings, devices, and agent supplies, as well as correcting deficiencies found.

Self-contained breathing apparatus (SCBA)

Self-contained breathing apparatus (SCBA) in which the air pressure in the breathing zone is higher than that of the immediate environment during both inhaling and exhaling.





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Statutory Authority

296-811-100 Scope.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-100, filed 12/20/05, effective 03/01/06]

296-811-200 Establishing a fire brigade.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-200, filed 12/20/05, effective 03/01/06]

296-811-20005 Organizing statement.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-20005, filed 12/20/05, effective 03/01/06]

296-811-20010 Physical capability of brigade members.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-20010, filed 12/20/05, effective 03/01/06]

296-811-300 Training.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-300, filed 12/20/05, effective 03/01/06]

296-811-30005 Special hazards.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-30005, filed 12/20/05, effective 03/01/06]

296-811-30010 Fire fighting training.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-30010, filed 12/20/05, effective 03/01/06]

296-811-400 Equipment.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-400, filed 12/20/05, effective 03/01/06]

296-811-40005 Fire fighting equipment.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-40005, filed 12/20/05, effective 03/01/06]

296-811-40010 Protective clothing.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-40010, filed 12/20/05, effective 03/01/06]

296-811-40015 Self-contained breathing apparatus' (SCBAs).

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-40015, filed 12/20/05, effective 03/01/06]

296-811-500 Requirements during fire fighting.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-500, filed 12/20/05, effective 03/01/06]

296-811-50005 Brigade members in interior structural fires.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-50005, filed 12/20/05, effective 03/01/06]

296-811-600 Definitions.

[Statutory Authority: RCW 49.17.010, .040, .050, and .060. 06-01-073 (Order 05-20), § 296-811-600, filed 12/20/05, effective 03/01/06]

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Notes